



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.

WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date June 18, 2021	EPA Reg No./File Symbol 91813-65	Page 1 of 16
Applicant's/Registrant's Name & Address UPL Delaware, Inc. c/o UPL NA Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406		Product Clethodim Technical 2 Herbicide
Ingredient Clethodim (CAS No.: 99129-21-2; Chemical Code: 121011)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT SPECIFIC DATA REQUIREMENTS					
830.1500	Preliminary 5 Batch Analysis	48317501	Arysta LifeScience North America, LLC	OWN	
830.1550	Product Identity and Composition	41798901	Valent USA Corporation	OLD	
		48912601	Arysta LifeScience North America, LLC	OWN	
		48317501	Arysta LifeScience North America, LLC	OWN	
		49081102	Arysta LifeScience North America, LLC	OWN	
		48317503	Arysta LifeScience North America, LLC	OWN	
		49081103	Arysta LifeScience North America, LLC	OWN	
830.1600	Description of Materials Used to Produce the Product	46124101	Arysta LifeScience North America, LLC	OWN	
830.1620	Description of the Production Process	48912602	Arysta LifeScience North America, LLC	OWN	
830.1670	Discussion of Formation of Impurities	41543301	Valent USA Corporation	OLD	
		48912602	Arysta LifeScience North America, LLC	OWN	
		46124102	Arysta LifeScience North America, LLC	OWN	
830.1700	Preliminary Analysis	42404801	Valent USA Corporation	OLD	
		49081101	Arysta LifeScience North America, LLC	OWN	
		48317501	Arysta LifeScience North America, LLC	OWN	
		48912601	Arysta LifeScience North America, LLC	OWN	
		48317501	Arysta LifeScience North America, LLC	OWN	
		49081102	Arysta LifeScience North America, LLC	OWN	
		48317503	Arysta LifeScience North America, LLC	OWN	
		49081103	Arysta LifeScience North America, LLC	OWN	
830.1750	Certified Limits	41543303	Valent USA Corporation	OLD	
		48317501	Arysta LifeScience North America, LLC	OWN	
		48912601	Arysta LifeScience North America, LLC	OWN	
		48317501	Arysta LifeScience North America, LLC	OWN	
		49081102	Arysta LifeScience North America, LLC	OWN	
		48317503	Arysta LifeScience North America, LLC	OWN	
		49081103	Arysta LifeScience North America, LLC	OWN	

Signature 	Name and Title Arianna Shorey Regulatory Consultant	Date 6/18/2021
--	---	-------------------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.

WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date June 18, 2021	EPA Reg No./File Symbol 91813-65	Page 2 of 16
Applicant's/Registrant's Name & Address UPL Delaware, Inc. c/o UPL NA Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406	Product Clethodim Technical 2 Herbicide	
Ingredient Clethodim (CAS No.: 99129-21-2; Chemical Code: 121011)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1800	Enforcement Analytical Method	41543304 48317501 49081102 48317503 49081103	Valent USA Corporation Arysta LifeScience North America, LLC Arysta LifeScience North America, LLC Arysta LifeScience North America, LLC Arysta LifeScience North America, LLC	OLD OWN OWN OWN OWN	
830.6302	Color	46124103	Arysta LifeScience North America, LLC	OWN	
830.6320	Corrosion Characteristics	46367201	Arysta LifeScience North America, LLC	OWN	
830.7050	UV / Visible Absorption	48265101	Valent USA Corporation	PER	
830.7550	Partition Coefficient (n-octanol/water), Shake Flask Method	47428701	Arysta LifeScience North America, LLC	OWN	
830 series	Physical/Chemical Characteristics	41543305	Valent USA Corporation	OLD	
870.1100	Acute Oral Toxicity – rat	41030101 41030102 43166401 49527105 49527106	The Scotts Company The Scotts Company Valent USA Corporation Arysta LifeScience North America, LLC Arysta LifeScience North America, LLC	OLD OLD OLD OWN OWN	
870.1200	Acute Dermal Toxicity – rat	40974510		OLD	
870.1300	Acute Inhalation Toxicity – rat	40974512		OLD	
870.2400	Eye Irritation	40974514		OLD	
870.2500	Skin Irritation	40974516		OLD	
870.2600	Skin Sensitization	47026701	Valent USA Corporation	PAY	
GENERIC DATA REQUIREMENTS					
850.2100	Acute Avian Oral Toxicity	40974525		OLD	
850.2200	Acute Avian Dietary Toxicity	40974526 40974527		OLD OLD	
850.2400	Wild Mammal Toxicity				Not required

Signature

Name and Title

Arianna Shorey
Regulatory Consultant

Date

6/18/2021



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.

WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date June 18, 2021		EPA Reg No./File Symbol 91813-65		Page 3 of 16	
Applicant's/Registrant's Name & Address UPL Delaware, Inc. c/o UPL NA Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406		Product Clethodim Technical 2 Herbicide			
Ingredient Clethodim (CAS No.: 99129-21-2; Chemical Code: 121011)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.2300	Avian Reproductive Toxicity	41030203 41030204 41030205 41030206		OLD OLD OLD OLD	
850.2500	Simulated or Actual Field Testing				Not required
850.1075	Freshwater Fish Toxicity	40974528 40974529 48417002 48417003 49439204	Valent U.S.A. LLC Valent U.S.A. LLC Arysta LifeScience N.A. LLC	OLD OLD PER PER OWN	
850.1010	Freshwater Invertebrate Toxicity	40974530 41685101		OLD OLD	
850.1025, 850.1035, 850.1045, 850.1055, 850.1075	Acute Toxicity Estuarine and Marine Organisms	48417001 48417004 48563001 49371501	Valent U.S.A. LLC Valent U.S.A. LLC Valent U.S.A. LLC Valent U.S.A. LLC	PER PER PER PER	
850.1300	Aquatic Invertebrate Life Cycle (Freshwater)	48104305	ADAMA Agan Ltd.	PAY	
850.1350	Aquatic Invertebrate Life Cycle (Saltwater)	48548601 49371502	Valent U.S.A. LLC Valent U.S.A. LLC	PER PER	
850.1400	Fish Early Life Stage (Freshwater)	48104303 48417002	ADAMA Agan Ltd. Valent U.S.A. LLC	PAY PER	
850.1400	Fish Early Life Stage (Saltwater)	48548602 49371503	Valent U.S.A. LLC Valent U.S.A. LLC	PER PER	
850.1500	Life Cycle Fish				Not required
850.1710, 850.1730, 850.1850	Aquatic Organisms Bioavailability, Biomagnification, Toxicity	40974524 40974531		OLD OLD	
850.1950	Simulated or Actual Field Testing for Aquatic Organisms				Not required
850.1735	Whole Sediment: Acute Freshwater Invertebrates				Not required

Signature

Name and Title

Arianna Shorey
Regulatory Consultant

Date

6/18/2021



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.

WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date	June 18, 2021	EPA Reg No./File Symbol	91813-65	Page	4 of 16
Applicant's/Registrant's Name & Address UPL Delaware, Inc. c/o UPL NA Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406		Product Clethodim Technical 2 Herbicide			
Ingredient Clethodim (CAS No.: 99129-21-2; Chemical Code: 121011)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1740	Whole Sediment: Acute Marine Invertebrates				Not required
N/A	Whole Sediment: Chronic Invertebrates Freshwater and Marine				Not required
850.3020	Honey Bee Acute Contact Toxicity	41685107		OLD	
850.3030	Honeybee Toxicity of Residues on Foliage				Reserved
850.3040	Field Testing for Pollinators				Reserved
870.6100	Delayed Neurotoxicity (Acute) – Hen				Not required
870.6200	Acute Neurotoxicity – Rat	48788501 48788502	Valent U.S.A. LLC Valent U.S.A. LLC	PER PER	
870.3100	90-Day Oral: Rodent	41030103 41030104 41030105 41030107 41030108 41030110		OLD OLD OLD OLD OLD OLD	
870.3150	90-Day Oral: Non-Rodent	41030106 41623602		OLD OLD	
870.3200	21/28-Day Dermal Toxicity	41030109 41030201		OLD OLD	
870.3250	90-Day Dermal Toxicity				Not required
870.3465	90-Day Inhalation Toxicity				Waived
870.6100	28-Day Delayed Neurotoxicity – Hen				Not required
870.6200	90-Day Neurotoxicity	48788503	Valent U.S.A. LLC	PER	
870.4100	Chronic Oral Rodent	41030121		OLD	
870.4200	Carcinogenicity	41030112 41030121		OLD OLD	

Signature

Name and Title

Arianna Shorey
Regulatory Consultant

Date

6/18/2021



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date June 18, 2021	EPA Reg No./File Symbol 91813-65	Page 5 of 16
Applicant's/Registrant's Name & Address UPL Delaware, Inc. c/o UPL NA Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406	Product Clethodim Technical 2 Herbicide	

Ingredient Clethodim (CAS No.: 99129-21-2; Chemical Code: 121011)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.3700	Reproduction / Developmental Toxicity Screening Test	41030113 41030114 41030115 41030116 41030117 41030118		OLD OLD OLD OLD OLD OLD	
870.3800	2-Generation Reproduction: Rat	41030119 41030120		OLD OLD	
870.6300	Developmental Neurotoxicity Study				Not required
870.5100	Bacterial Reverse Mutation Test	41030122 41030123 41030126 41030127 44628501 44628502 44628503		OLD OLD OLD OLD OLD OLD OLD	
870.5300, 870.5375	<i>In vitro</i> Mammalian Cell Assay	41030123 41030128 41030129 41030130 41030131		OLD OLD OLD OLD OLD	
870.5385, 870.5395, 870.5450; 870.5550	<i>In vivo</i> Cytogenetics and Other Effects	41030124 41030125		OLD OLD	
870.7485	Metabolism and Pharmacokinetics	41030132		OLD	
870.7200	Companion Animal Safety				Not required
870.7600	Dermal Penetration	41030202		OLD	
870.7800	Immunotoxicity	48788504 48788505	Valent U.S.A. LLC Valent U.S.A. LLC	PER PER	

Signature

Name and Title

Arianna Shorey
Regulatory Consultant

Date

6/18/2021



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.

WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date June 18, 2021	EPA Reg No./File Symbol 91813-65	Page 6 of 16
Applicant's/Registrant's Name & Address UPL Delaware, Inc. c/o UPL NA Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406	Product Clethodim Technical 2 Herbicide	

Ingredient Clethodim (CAS No.: 99129-21-2; Chemical Code: 121011)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.1100	Dermal Exposure – Outdoor		Agricultural Handler Exposure TF	PER	
875.1200	Dermal Exposure – Indoor				Not required
875.1300	Inhalation Exposure – Outdoor		Agricultural Handler Exposure TF	PER	
875.1400	Inhalation Exposure – Indoor				Not required
875.1500	Biological Monitoring		Agricultural Handler Exposure TF	PER	
875.1600	Data Reporting and Calculations		Agricultural Handler Exposure TF	PER	
875.1700	Product Use Information		Agricultural Handler Exposure TF	PER	
875.2100	Dislodgeable Foliar Residue and Turf Transferable Residues		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OLD	
875.2200	Soil Residue Dissipation		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OLD	
875.2400	Dermal Exposure		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OLD	
875.2500	Inhalation Exposure		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OLD	
875.2600	Biological Monitoring		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OLD	
875.2700	Product Use Information		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OLD	
875.2800	Descriptions of Human Activity		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OLD	
875.2900	Data Reporting and Calculations		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OLD	
875.3000	Nondietary Ingestion Exposure		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OLD	

Signature

Name and Title

Arianna Shorey
Regulatory Consultant

Date

6/18/2021



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.

WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date June 18, 2021		EPA Reg No./File Symbol 91813-65		Page 7 of 16	
Applicant's/Registrant's Name & Address UPL Delaware, Inc. c/o UPL NA Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406		Product Clethodim Technical 2 Herbicide			
Ingredient Clethodim (CAS No.: 99129-21-2; Chemical Code: 121011)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
201-1	Droplet Size Spectrum		Spray Drift TF	OLD	
202-1	Droplet Size Spectrum		Spray Drift TF	OLD	
850.4100	Tier 1: Seedling Emergence	41685102 41685104		OLD OLD	
850.4150	Tier 1: Vegetative Vigor	41685103 41685105		OLD OLD	
850.4400, 850.4500	Tier 1: Aquatic Plant Growth	41685106 42029701-06 47954504 47954505 49439205 49439206	U.S. EPA U.S. EPA Arysta LifeScience N.A. LLC Arysta LifeScience N.A. LLC	OLD OLD PL PL OWN OWN	
850.4100	Tier 2: Seedling Emergence	41685102 41685104		OLD OLD	
850.4150	Tier 2: Vegetative Vigor	41685103 41685105		OLD OLD	
850.4400, 850.4500	Tier 2: Aquatic Plant Growth	41685106 42029701-06 47954504 47954505 49439205 49439206	U.S. EPA U.S. EPA Arysta LifeScience N.A. LLC Arysta LifeScience N.A. LLC	OLD OLD PL PL OWN OWN	
850.4300	Terrestrial Field				Not required
850.4450	Aquatic Field				Not required
850.4025	Target Area Phytotoxicity				Not required
850.4550	Cyanobacteria Toxicity	42029705		OLD	

Signature

Name and Title

Arianna Shorey
Regulatory Consultant

Date

6/18/2021



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.

WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date June 18, 2021		EPA Reg No./File Symbol 91813-65		Page 8 of 16	
Applicant's/Registrant's Name & Address UPL Delaware, Inc. c/o UPL NA Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406		Product Clethodim Technical 2 Herbicide			
Ingredient Clethodim (CAS No.: 99129-21-2; Chemical Code: 121011)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.2120	Hydrolysis	40974520		OLD	
835.2240	Photodegradation in Water	41030133 41030134		OLD OLD	
835.2410	Photodegradation in Soil	41030135		OLD	
835.2370	Photodegradation in Air				Not required
835.4100	Aerobic Soil Metabolism	40974521 40974522 41030136 41376801 49439202	Arysta LifeScience N.A. LLC	OLD OLD OLD OLD OWN	
835.4200	Anaerobic Soil Metabolism	41030136		OLD	
835.4300	Aerobic Aquatic Metabolism	49439201 49439203	Arysta LifeScience N.A. LLC Arysta LifeScience N.A. LLC	OWN OWN	
835.4400	Anaerobic Aquatic Metabolism	41652301		OLD	
835.1230	Leaching / Adsorption / Desorption	40974523		OLD	
835.1410	Volatility – Laboratory				Not required
835.8100	Volatility – Field				Not required
835.6100	Soil Field Dissipation Study	41030207 41030208 41030209 41030210		OLD OLD OLD OLD	
835.6200	Aquatic Sediment Field Dissipation Study				Not required
835.6300	Forest Field Dissipation Study				Not required
835.6400	Combination and Tank Mixes				Not required
835.7100	Ground Water Monitoring				Not required

Signature

Name and Title

Arianna Shorey
Regulatory Consultant

Date

6/18/2021



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date June 18, 2021	EPA Reg No./File Symbol 91813-65	Page 9 of 16
Applicant's/Registrant's Name & Address UPL Delaware, Inc. c/o UPL NA Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406	Product Clethodim Technical 2 Herbicide	

Ingredient Clethodim (CAS No.: 99129-21-2; Chemical Code: 121011)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1300	Nature of the Residue: Plants	41030137 41030138		OLD OLD	
860.1300	Nature of the Residue: Livestock	41030139 41030140		OLD OLD	
860.1850	Confined Rotational Crops	41030211		OLD	
860.1340	Residue Analytical Methods	41030141 41389901 41389902 41396001 41623401 41623402 41685001 41730701 42924501 42924502 43113201 43113202 43113203 43448201 43448202 43448203 43757701 43757702		OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD	
860.1360	Multiresidue Method	41030223 43166406 43166407		OLD OLD OLD	

Signature 	Name and Title Arianna Shorey Regulatory Consultant	Date 6/18/2021
---------------	---	-------------------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.

WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date	June 18, 2021	EPA Reg No./File Symbol	91813-65	Page	10 of 16
Applicant's/Registrant's Name & Address UPL Delaware, Inc. c/o UPL NA Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406		Product Clethodim Technical 2 Herbicide			
Ingredient Clethodim (CAS No.: 99129-21-2; Chemical Code: 121011)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1380	Storage Stability	41382301 41389903 41623403 41623404		OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: Alfalfa	43448201 43471701 43848901		OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: Artichoke (Globe)	47631404	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: Beans (Dry)	43471702 43448202		OLD OLD	
860.1500	Magnitude of the Residue in Plants: Beets (Sugar)	43166403 43166405 43583801 44753206		OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: Birdsfoot Trefoil	43448201 43471701 43848901 45027809		OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: Cabbage (Chinese Mustard)	45284403 45284404		OLD OLD	
860.1500	Magnitude of the Residue in Plants: Canola	44393301 45875901		OLD OLD	
860.1500	Magnitude of the Residue in Plants: Cavalo Broccolo	45284403 45284404		OLD OLD	
860.1500	Magnitude of the Residue in Plants: Clover	45027809		OLD	
860.1500	Magnitude of the Residue in Plants: Corn (Field)	46951801	Valent U.S.A. LLC	PER	

Signature

Name and Title

Arianna Shorey
Regulatory Consultant

Date

6/18/2021



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.

WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date June 18, 2021	EPA Reg No./File Symbol 91813-65	Page 11 of 16
Applicant's/Registrant's Name & Address UPL Delaware, Inc. c/o UPL NA Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406		Product Clethodim Technical 2 Herbicide
Ingredient Clethodim (CAS No.: 99129-21-2; Chemical Code: 121011)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: Cotton	41030213 41030214 41030215 42286505 42286506 46789601	IR-4	OLD OLD OLD OLD OLD PL	
860.1500	Magnitude of the Residue in Plants: Cranberry	45027807		OLD	
860.1500	Magnitude of the Residue in Plants: Flax	45858501		OLD	
860.1500	Magnitude of the Residue in Plants: Holy Clover	43448201 43471701 43848901 45027809		OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: Hops	46434601		OLD	
860.1500	Magnitude of the Residue in Plants: Lettuce (Leaf)	45284402		OLD	
860.1500	Magnitude of the Residue in Plants: Mint (Peppermint and Spearmint)	45571901		OLD	
860.1500	Magnitude of the Residue in Plants: Mustard Seed	46258101 46258102		OLD OLD	
860.1500	Magnitude of the Residue in Plants: Mustard Spinach	45504701		OLD	
860.1500	Magnitude of the Residue in Plants: Okra	49958401	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: Peanuts	43471703		OLD	
860.1500	Magnitude of the Residue in Plants: Radish Greens	45284403 45284404 45504701		OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: Safflower	44323402		OLD	

Signature

Name and Title

Arianna Shorey
Regulatory Consultant

Date

6/18/2021



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.

WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date June 18, 2021

EPA Reg No./File Symbol 91813-65

Page 12 of 16

Applicant's/Registrant's Name & Address

UPL Delaware, Inc.
c/o UPL NA Inc.
630 Freedom Business Center, Suite 402
King of Prussia, PA 19406

Product

Clethodim Technical 2 Herbicide

Ingredient Clethodim (CAS No.: 99129-21-2; Chemical Code: 121011)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: Sainfoin	43448201 43471701 43848901 45027809		OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: Sesame	46434605		OLD	
860.1500	Magnitude of the Residue in Plants: Soybeans	41030216 41030217 41030218		OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: Stevia	46258101 46258102		OLD OLD	
860.1500	Magnitude of the Residue in Plants: Strawberry	45027808		OLD	
860.1500	Magnitude of the Residue in Plants: Tomatoes	43757703 45015501		OLD OLD	
860.1500	Magnitude of the Residue in Plants: Turnip Greens	45284403 45284404 45504701		OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: Watercress	45284403 45284404 45504701		OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: Root Vegetables Crop Subgroup 1B (except sugar beets)	45027802 45027803		OLD OLD	
860.1500	Magnitude of the Residue in Plants: Root Vegetables Crop Subgroup 1C	43757704 44323401		OLD OLD	
860.1500	Magnitude of the Residue in Plants: Leaves of Root and Tuber Vegetables Crop Group 2	43757704 44323401 45027802 45027803		OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: Bulb Vegetables Crop Subgroup 3-07A	43166404 43583801		OLD OLD	

Signature

Name and Title

Arianna Shorey
Regulatory Consultant

Date

6/18/2021



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date June 18, 2021	EPA Reg No./File Symbol 91813-65	Page 13 of 16
Applicant's/Registrant's Name & Address UPL Delaware, Inc. c/o UPL NA Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406	Product Clethodim Technical 2 Herbicide	
Ingredient Clethodim (CAS No.: 99129-21-2; Chemical Code: 121011)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: Green Onion Subgroup 3-07B	45284401		OLD	
860.1500	Magnitude of the Residue in Plants: Leafy Greens Crop Subgroup 4-16A	45284402 45567601 46434603 46434604 48481701	IR-4	OLD OLD OLD OLD PL	
860.1500	Magnitude of the Residue in Plants: Brassica Leafy Greens Subgroup 4-16B	45284403 45284404 45504701		OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: Vegetable Brassica Head and Stem Group 5-16	45284403 45284404		OLD OLD	
860.1500	Magnitude of the Residue in Plants: Legume Vegetables Crop Group 6 (except soybeans)	43448202 43471702 46434606 46434607 46434608 46434609		OLD OLD OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: Fruiting Vegetables Crop Group 8-10 (except okra)	43757703 44753204 44753205 45015501 46789801	IR-4	OLD OLD OLD OLD PL	
860.1500	Magnitude of the Residue in Plants: Cucurbit Vegetables Crop Group Melon Subgroup 9A	45027805		OLD	
860.1500	Magnitude of the Residue in Plants: Cucurbit Vegetable Crop Group Squash/Cucumber Subgroup 9B	44753203 45027806		OLD OLD	
860.1500	Magnitude of the Residue in Plants: Pome Fruit Crop Group 11-10	49508701 49508702	IR-4 IR-4	PL PL	

Signature

Name and Title

Arianna Shorey
Regulatory Consultant

Date

6/18/2021



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.

WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date June 18, 2021	EPA Reg No./File Symbol 91813-65	Page 14 of 16
Applicant's/Registrant's Name & Address UPL Delaware, Inc. c/o UPL NA Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406		Product Clethodim Technical 2 Herbicide
Ingredient Clethodim (CAS No.: 99129-21-2; Chemical Code: 121011)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: Stone Fruit Crop Group 12-12	47631403 49508703 49508704	IR-4 IR-4 IR-4	PL PL PL	
860.1500	Magnitude of the Residue in Plants: Berry and Small Fruit Crop Group Caneberry Subgroup 13-07A	47631402	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: Berry and Small Fruit Crop Group Bushberry Subgroup 13-07B	47631401	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: Berry, Low Growing Subgroup 13-07G (except cranberry)	45027808		OLD	
860.1500	Magnitude of the Residue in Plants: Tree Nuts Crop Group 14-12	49958402 49958403	IR-4 IR-4	PL PL	
860.1500	Magnitude of the Residue in Plants: Herbs and Spice Crop Group, Herbs Subgroup 19A	46258101 46258102		OLD OLD	
860.1500	Magnitude of the Residue in Plants: Rapeseed Subgroup 20A (except flax seed)	44393301 45875901 46434605		OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: Sunflower Subgroup 20B	44323402		OLD	
860.1500	Magnitude of the Residue in Plants: Cottonseed Subgroup 20C	41030213 41030214 41030215 42286505 42286506 46789601	IR-4	OLD OLD OLD OLD OLD PL	
860.1500	Magnitude of the Residue in Plants: Stalk and Stem Vegetable Subgroup 22A	46434602		OLD	
860.1500	Magnitude of the Residue in Plants: Leafy Petiole Vegetable Subgroup 22B	45027804 48499801	IR-4	OLD PL	

Signature

Name and Title

Arianna Shorey
Regulatory Consultant

Date

6/18/2021



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.

WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date June 18, 2021

EPA Reg No./File Symbol 91813-65

Page 15 of 16

Applicant's/Registrant's Name & Address

UPL Delaware, Inc.
c/o UPL NA Inc.
630 Freedom Business Center, Suite 402
King of Prussia, PA 19406

Product

Clethodim Technical 2 Herbicide

Ingredient Clethodim (CAS No.: 99129-21-2; Chemical Code: 121011)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1520	Magnitude of the Residue in Processed Food or Feed: Beets (Sugar)	43166403 43166405 43583801 44753206		OLD OLD OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: Canola	44393301 45875901		OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: Corn (Field)	46951801	Valent U.S.A. LLC	PER	
860.1520	Magnitude of the Residue in Processed Food or Feed: Cotton	41030213 41030214 41030215 41030219 42286505 42286506 46789601	IR-4	OLD OLD OLD OLD OLD OLD PL	
860.1520	Magnitude of the Residue in Processed Food or Feed: Flax	45858501		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: Mint	45571901		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: Peanut	43471703		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: Safflower	44323402		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: Sesame	46434605		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: Soybeans	41030216 41030217 41030218 41030220		OLD OLD OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: Tomatoes	43757703 45015501		OLD OLD	

Signature

Name and Title

Arianna Shorey
Regulatory Consultant

Date

6/18/2021



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.

WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date June 18, 2021	EPA Reg No./File Symbol 91813-65	Page 16 of 16
Applicant's/Registrant's Name & Address UPL Delaware, Inc. c/o UPL NA Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406		Product Clethodim Technical 2 Herbicide
Ingredient Clethodim (CAS No.: 99129-21-2; Chemical Code: 121011)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1520	Magnitude of the Residue in Processed Food or Feed: Root Vegetables Crop Subgroup 1C (potato)	43757704 44323401		OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: Pome Fruit Crop Group 11-10 (apple)	49508701 49508702	IR-4 IR-4	PL PL	
860.1520	Magnitude of the Residue in Processed Food or Feed: Stone Fruit Crop Group 12-12 (plum)	47631403 49508703 49508704	IR-4 IR-4 IR-4	PL PL PL	
860.1520	Magnitude of the Residue in Processed Food or Feed: Herbs and Spice Crop Group, Herbs Subgroup 19A (dried)	46258101 46258102		OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: Rapeseed Subgroup 20A (except flax seed) (rapeseed)	44393301 45875901 46434605		OLD OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: Sunflower Subgroup 20B (sunflower)	44323402		OLD	
860.1480	Magnitude of the Residue in Meat, Milk, Poultry, and Eggs	41030221 41030222		OLD OLD	
860.1400	Nature and Magnitude of the Residue in Potable Water				Not required
860.1400	Magnitude of the Residue in Fish				Not required
860.1400	Magnitude of the Residue in Plants Resulting from the Use of Irrigation Water				Not required
860.1460	Magnitude of the Residue in Food Handling Establishments				Not required
860.1900	Field Rotational Crops				Not required

Signature 	Name and Title Arianna Shorey Regulatory Consultant	Date 6/18/2021
--	---	-------------------